WHAT IS CLAIMED IS:

1. Compound represented by the formula:

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or a pharmaceutically acceptable salt, prodrug or ester thereof, wherein n and t each independently represent 0, 1 or 2;

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R1 represents hydrogen, alkyl of 1-5 carbon atoms, alkenyl of 2-5 carbon atoms, alkynyl of 2-5 carbon atoms, hydroxyalkyl of 1-3 carbon atoms, alkoxyalkyl of 1-3 alkyl and 1-3 alkoxy carbon atoms, cyanoalkyl of 1-3 alkyl carbon atoms, -CH2CONH2, -CH2CONH2, -CH2CONH2, -CH2S(O)2NH2, -CH2SCH3, -CH2S(O)CH3 or -CH2S(O)2CH3 radicals;

R² represents radicals of alkyl of 1-5 carbon atoms, aralkyl of 1-3 alkyl carbon atoms, alkylthioalkyl of 1-3 alkyl carbon atoms, arylthioalkyl of 1-3 alkyl carbon atoms or cycloalkylalkyl of 1-3 alkyl carbon atoms and 3-6 ring member carbon atoms;

25 R³ represents radicals of alkyl radical of 1-5 carbon atoms, cycloalkyl of 5-8 ring members or cycloalkylmethyl radical of 3-6 ring members;

R4 represents benzo fused 5 to 6 ring member heteroaryl 30 or benzo fused 5 to 6 ring member heterocyclo radicals, or a radical of the formula

$$\sum_{B}^{A} R^{6}$$

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wherein A and B each independently represent O, S, SO or SO_2 ; R^6 represents deuterium, alkyl of 1-5 carbon atoms, fluoro or chloro radicals; R^7 represents hydrogen, deuterium, methyl, fluoro or chloro radicals; or a radical of the formula

$$\mathbb{Z}_{\mathbb{N}}^{\mathbb{Z}}$$
 \mathbb{R}^9

wherein Z represents O, S or NH; and R^9 represents a radical of formula

wherein Y represents O, S or NH; X represents a bond, O or NR^{21} ;

 \mathbb{R}^{20} represents hydrogen, alkyl of 1 to 5 carbon atoms, alkenyl of 2 to 5 carbon atoms, alkynyl of 2 to 5 carbon atoms, aralkyl of 1 to 5 alkyl carbon atoms, heteroaralkyl 15 of 5 to 6 ring members and 1 to 5 alkyl carbon atoms, heterocycloalkyl of 5 to 6 ring members and 1 to 5 alkyl carbon atoms, aminoalkyl of 2 to 5 carbon atoms, N-monosubstituted or N,N-disubstituted aminoalkyl of 2 to 5alkyl carbon atoms wherein said substituents are radicals 20 of alkyl of 1 to 3 carbon atoms, aralkyl of 1 to 3 alkyl carbon atoms radicals, carboxyalkyl of 1 to 5 carbon atoms, alkoxycarbonylalkyl of 1 to 5 alkyl carbon atoms, cyanoalkyl of 1 to 5 carbon atoms or hydroxyalkyl of 2 to 5 carbon atoms; 25

 R^{21} represents hydrogen radical or alkyl radical of 1 to 3 carbon atoms; or the radical of formula $-NR^{20}R^{21}$ represents a 5 to 6 ring member heterocyclo radical; and

 $\rm R^{22}$ represents alkyl radical of 1 to 3 carbon atoms or $\rm R^{20}R^{21}N\text{-}alkyl$ radical of 1 to 3 alkyl carbon atoms; and

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- 2. Compound of Claim 1, or a pharmaceutically acceptable salt, prodrug or ester thereof, wherein n represents 1;
- 10 t represents 1 or 2;

R1 represents hydrogen radical, alkyl radical of 1-3 carbon atoms, alkenyl radical of 2-3 carbon atoms, alkynyl radical of 2-3 carbon atoms radicals or cyanomethyl;

R² represents radicals of alkyl of 3-5 carbon atoms, arylmethyl, alkylthioalkyl of 1-3 alkyl carbon atoms, arylthiomethyl or cycloalkylmethyl of 5-6 ring member carbon atoms radicals;

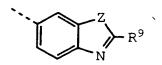
R3 represents alkyl of 1-5 carbon atoms, cycloalkylmethyl of 3-6 ring members, cyclohexyl or cycloheptyl radicals;

25 R4 represents 2-amino-benzothiazol-5-yl, 2-amino-benzothiazol-6-yl, benzothiazol-5-yl, benzothiazol-6-yl, benzothiazol-5-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl or 1,4-benzodioxan-6-yl radicals; or a radical of the formula

$$\sum_{B}^{A} \sum_{R^7}^{R^6}$$

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wherein A and B each represent O; R⁶ represents deuterium, methyl, ethyl, propyl, isopropyl or fluoro radicals; and R⁷ represents hydrogen, deuterium, methyl or fluoro radicals; or a radical of the formula



wherein Z represents O, S or NH; and ${\bf R}^9$ represents a radical of formula

5 wherein Y represents O, S or NH; X represents a bond, O or NR^{21} ;

R²⁰ represents hydrogen, alkyl of 1 to 5 carbon atoms, phenylalkyl of 1 to 3 alkyl carbon atoms, heterocycloalkyl of 5 to 6 ring members and 1 to 3 alkyl carbon atoms, or N-mono-substituted or N,N-disubstituted aminoalkyl of 2 to 3 alkyl carbon atoms wherein said substituents are alkyl radicals of 1 to 3 carbon atoms; and

- 15 R²¹ represents hydrogen or methyl radicals; or the radical of formula -NR²⁰R²¹ represents pyrrolidinyl, piperidinyl, piperazinyl, 4-methylpiperazinyl, 4-benzylpiperazinyl, morpholinyl or thiamorpholinyl radicals; and
- 20 R^{22} represents alkyl radical of 1 to 3 carbon atoms; and

 R^5 represents an alkyl radical of 1-5 carbon atoms, alkenyl radical of 3-4 carbon atoms, alkynyl radical of 3-4 carbon atoms or aryl substituted alkyl radical of 1-4 carbon atoms.

- 3. Compound of Claim 2, or a pharmaceutically acceptable salt, prodrug or ester thereof, wherein
- 30 R¹ represents hydrogen, methyl, ethyl or cyanomethyl radicals;

 $\rm R^2$ represents isobutyl, n-butyl, $\rm CH_3SCH_2CH_2-$, phenylthiomethyl, (2-naphthylthio)methyl, benzyl, 4-

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methoxyphenylmethyl, 4-hydroxyphenylmethyl, 4-fluorophenylmethyl or cyclohexylmethyl radicals;

R³ represents propyl, isoamyl, isobutyl, butyl,
cyclohexyl, cycloheptyl, cyclopentylmethyl or
cyclohexylmethyl radicals; and
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R4 represents benzothiazol-5-yl, benzothiazol-6-yl, benzoxazol-5-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl, 2-methyl-1,3-benzodioxol-5-yl, 2,2-dideutero-1,3-benzodioxol-5-yl, 2,2-difluoro-1,3-benzodioxol-5-yl or 1,4-benzodioxan-6-yl radicals; or a radical of the formula

$$\sum_{N}^{Z} R^{9}$$

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wherein Z represents O, S or NH; and \mathbb{R}^9 represents a radical of formula

wherein Y represents O, S or NH; X represents a bond, O or $20~\mathrm{NR}^{21};$

R²⁰ represents hydrogen, methyl, ethyl, propyl, isopropyl, isobutyl, benzyl, 2-(1-pyrrolidinyl)ethyl, 2-(1-piperidinyl)ethyl, 2-(4-methylpiperazin-1-yl)ethyl, 2-(1-morpholinyl)ethyl, 2-(1-thiamorpholinyl)ethyl or 2-(N,N-dimethylamino)ethyl radicals;

 R^{21} represents a hydrogen radical; and

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 R^{22} represents methyl radical; and

 ${\it R}^{5}$ represents an alkyl radical of 1-5 carbon atoms or phenyl substituted alkyl radical of 2-4 carbon atoms.

- 4. Compound of Claim 3 or a pharmaceutically acceptable salt, prodrug or ester thereof, wherein
- 5 R1 represents methyl or ethyl radicals;

R² represents benzyl, 4-fluorophenylmethyl or cyclohexylmethyl radicals;

- 10 R4 represents benzothiazol-5-yl, benzothiazol-6-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl, 2-methyl-1,3-benzodioxol-5-yl, 2,2-dimethyl-1,3-benzodioxol-5-yl, 2,2-difluoro-1,3-benzodioxol-5-yl, 1,4-benzodioxan-6-yl, 2,2-difluoro-1,3-benzodioxol-5-yl, 1,4-benzodioxan-6-yl,
- 2-(methoxycarbonylamino)benzothiazol-6-yl or 2-(methoxycarbonylamino)benzimidazol-5-yl radicals; and

 ${\sf R}^{\sf S}$ represents methyl, ethyl, propyl, isopropyl or 2-phenylethyl radicals.

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5. Compound of Claim 1 which is

N-[2R-hydroxy-3-[(2-methylpropyl)](1,3-benzodioxol-5-yl)sulfonyl]amino]-1S-(phenylmethyl)propyl]-2S-methyl-3-(methylsulfonyl)propanamide;

N-[2R-hydroxy-3-[(2-methylpropyl)]((1,4-benzodioxan-6-yl)sulfonyl]amino]-1S-(phenylmethyl)propyl]-2S-methyl-3-(methylsulfonyl)propanamide;

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- N-[2R-hydroxy-3-[(2-methylpropyl)[(benzothiazol-6-yl)sulfonyl]amino]-1S-(phenylmethyl)propyl]-2S-methyl-3-(methylsulfonyl)propanamide;
- N-[2R-hydroxy-3-[(2-methylpropyl)](benzothiazol-5-yl)sulfonyl]amino]-1S-(phenylmethyl)propyl]-2S-methyl-3-(methylsulfonyl)propanamide; or

N-[2R-hydroxy-3-[(2-methylpropy1)]((2,3-dihydrobenzofuran-5-y1)sulfonyl]amino]-1S-(phenylmethyl)propyl]-2S-methyl-3-(methylsulfonyl)propanamide.

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- 6. Composition comprising a compound of Claim 1 and a pharmaceutically acceptable carrier.
- 7. Method of inhibiting a retroviral protease comprising administering an effective amount of a compound of Claim 1.
 - 8. Method of treating a retroviral infection comprising administering an effective amount of a composition of Claim 6.
 - 9. Method of preventing replication of a retrovirus comprising administering an effective amount of a compound of Claim 1.

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- 10. Method of preventing replication of a retrovirus in vitro comprising administering an effective amount of a compound of Claim 1.
- 25 11. Method of treating AIDS comprising administering an effective amount of a composition of Claim 6.

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